From:	Miller, Garyg
To:	David Keith
Cc:	Hayter, Earl J ERDC-CHL-MS; Hayter, Earl J ERDC-RDE-EL-MS; Rogers, Natalie S ERD-MS; Paul R Schroeder (Paul.R.Schroeder@erdc.dren.mil)
Subject:	RE: Alternatives for SanJacinto (UNCLASSIFIED)
Date:	Thursday, April 09, 2015 12:14:00 PM

David,

Please see the email below; can you either confirm or provide revisions as needed?

Thanks,

Gary Miller
EPA Remedial Project Manager
214-665-8318
miller.garyg@epa.gov

From: Schroeder, Paul R ERDC-RDE-EL-MS [mailto:Paul.R.Schroeder@erdc.dren.mil]
Sent: Thursday, April 09, 2015 12:03 PM
To: Miller, Garyg
Cc: Hayter, Earl J ERDC-CHL-MS; Hayter, Earl J ERDC-RDE-EL-MS; Rogers, Natalie S ERD-MS
Subject: Alternatives for SanJacinto (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: FOUO

Gary,

We are having considerable difficulties in identifying the details (and corresponding fate and transport modeling assumptions) of the San Jacinto FS alternatives.

The fate and transport modeling results suggests inconsistency in the BMPs between the alternatives. It would be helpful if there were a simple table of contaminant release assumptions by areas.

For example:

Alternative 4N:

Within Western Cell Footprint:	sheet pile wall BMP, performed in the dry; no releases except dust, collected water after cap removal will be treated before discharge; very little residuals, capped with geomembrane/geotextiles and armor material
Within Eastern Cell Footprint:	sheet pile wall BMP,

performed in the dry where water depths are less than about 3 feet;
no releases except dust, collected water after cap removal will be treated before discharge;
very little residuals, capped with geotextile and armor material
performed in the wet where water depths are greater than about 3 feet (northwestern portion);
0.85% losses
very little residuals, capped with geotextile and armor material

Alternative 5N:

Within Western Cell Footprint: sheet pile wall BMP,
performed in the dry;
no releases except dust, collected water after cap removal will be treated before discharge;
very little residuals, capped with 2 ft of backfill (no mixing with residuals), geotextiles and armor material

Within Eastern Cell Footprint: sheet pile wall BMP,
performed in the dry where water depths are less than about 3 feet;
no releases except dust, collected water after cap removal will be treated before discharge;
very little residuals, capped with 2 ft of backfill (no mixing with residuals), geotextile and armor material
performed in the wet where water depths are greater than about 3 feet (northwestern portion);
0.85% losses
7% residuals, capped with 3 ft of backfill (bottom 12 inches mixed with 5% residuals), geotextile and armor material

Alternative 5aN:

Within Western Cell Footprint: sheet pile wall BMP,
performed in the dry;
no releases except dust, collected water after cap removal will be treated before discharge;
very little residuals, capped with 1 ft of backfill (no mixing with residuals)

Within Eastern Cell 5N Footprint: sheet pile wall BMP,

performed in the dry where water depths are less than about 3 feet;
no releases except dust, collected water after cap removal will be treated before discharge;
very little residuals, capped with 1 ft of backfill (no mixing with residuals)
performed in the wet where water depths are greater than about 3 feet (northwestern portion);
0.85% losses
7% residuals, capped with 2 ft of backfill (bottom 12 inches mixed with 5% residuals)

Within Eastern Cell outside 5N Footprint: silt curtain BMP,
performed in the wet where water depths are greater than about 3 feet (northwestern portion);
3% losses
5% residuals, capped with 2 ft of backfill (bottom 12 inches mixed with 5% residuals)

Alternative 6N:

Within Western Cell Footprint: sheet pile wall BMP,
performed in the dry;
no releases except dust, collected water after cap removal will be treated before discharge;
very little residuals, capped with 1 ft of backfill (no mixing with residuals)

Within Eastern Cell 5N Footprint: sheet pile wall BMP,
performed in the dry where water depths are less than about 3 feet;
no releases except dust, collected water after cap removal will be treated before discharge;
very little residuals, capped with 1 ft of backfill (no mixing with residuals)
performed in the wet where water depths are greater than about 3 feet (northwestern portion);
0.85% losses
7% residuals, capped with 2 ft of backfill (bottom 12 inches mixed with 5% residuals)

Within Eastern Cell outside 5N and inside 5aN Footprints: silt curtain BMP,
performed in the wet where water depths are greater than about 3 feet (northwestern portion);
3% losses
5% residuals, capped with 2 ft of backfill

(bottom 12 inches mixed with 5% residuals)

Within Eastern Cell outside 5aN Footprint: silt curtain BMP, performed in the wet where water depths are greater than about 3 feet (northwestern portion);
3% losses
5% residuals, capped with 2 ft of backfill
(bottom 12 inches mixed with 5% residuals)

Would it be possible for the PRPs to supply this table with their assumptions? These would be our assumptions (more or less), but I do not think that they match their alternatives.

Thanks,

Paul

Paul R. Schroeder, PhD, PE
Research Civil Engineer

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